

DEPARTMENT OF TRANSPORTATION**DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:**Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001570**Date Inspected:** 11-Feb-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 4BW**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following: Inspected and observed operations inside the newly constructed galvanizing shop facility with ABF QA Bill Oak. Facility appeared clean and organized with personnel removing dross from molten zinc tank as individual pieces of base metal were dipped, to prevent dross from adhering to galvanized surfaces. Several acid dipping tanks were in use as well as rinsing tanks prior to the galvanizing process. After galvanizing process was completed and pieces allowed to cool the material storage area was inspected and found to be in need of attention as the pieces were placed directly upon the concrete with no protection either from scraping upon the concrete or from contact with each galvanized piece.

OBG 4BW

Caltrans QA Lumley jointly inspected base metal faying surfaces with International Protective coatings technical representative and ABF QA and ZPMC QC personnel. Surfaces abrasive blasted were not in compliance with SP-10 requirements and ZPMC QC rejected the work and directed personnel to re-blast base metal surfaces. The areas were re-blasted and re-inspected by the aforementioned personnel and the interior surfaces of the bolt holes were found to have rust evident and re-blasting once again took place. The areas were re-inspected by the aforementioned personnel once again and SP-10 was achieved. ZPMC QC obtained abrasive blast profiles as well as monitored ambient conditions and all were found to be within the parameters required. ZPMC applied Interzinc 22 to abrasive blasted base metal surfaces utilizing aerospray.

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Summary of Conversations:

Poor lighting visibility is very limited. This was discussed with ZPMC and the coating technical representative agreed. Caltrans QA Lumley also informed ZPMC that abrasive blasting and coating application plan was not compliant and informed ZPMC proceed at own risk.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang, (858) 699-9549, who represents the Office of Structural Materials for your project.

Inspected By:	Lumley,James	Quality Assurance Inspector
Reviewed By:	Miller,Mark	QA Reviewer
